

What is claimed is:

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OK for 52/742.14 P1
- 5 1. A method for preparing and installing a baseplate for supporting rotating machinery, comprising:
preparing and pouring a grouting material into a cavity in a baseplate;
curing said grouting material to achieve desired physical properties for said grouting material;
checking the mounting surfaces adapted for supporting a piece of rotating machinery on said baseplate for specified tolerances;
placing said baseplate in a fixture to allow machining of said mounting surfaces;
10 machining said mounting surfaces adapted for supporting a piece of rotating machinery on said baseplate to a specified tolerance; and,
installing a piece of rotating machinery on said machined mounting surfaces.
- 15 2. A method for preparing and installing a baseplate for supporting rotating machinery, according to Claim 1, including the steps of:
accelerating the curing of said grouting material by maintaining said baseplate at an elevated temperature for a specified time period.
- 20 3. A method for preparing and installing a baseplate for supporting rotating machinery, according to Claim 2, further including the steps of:
securing said baseplate to a foundation;
leveling said baseplate;
placing a form around said baseplate and said foundation; and,
pouring a grouting material into the void between said baseplate and said foundation.
- 25 4. A method for preparing and installing a baseplate for supporting rotating machinery, according to Claim 3, wherein:
said grouting material is an organic grout.
- 30 5. A method for preparing and installing a baseplate for supporting rotating machinery, according to Claim 1, including the steps of:
ensuring the curing of said grouting material by curing said grouting material for a specified time period.
6. A method for preparing and installing a baseplate for supporting rotating

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machinery, according to Claim 5, further including the steps of:

securing said baseplate to a foundation;

leveling said baseplate;

placing a form around said baseplate and said foundation; and,

5 pouring a grouting material into the void between said baseplate and said foundation.

7. A method for preparing and installing a baseplate for supporting rotating machinery, according to Claim 6, wherein:

said grouting material is an inorganic grout.

10 8. A pregrouted baseplate for supporting rotating machinery, comprising:

a frame of a rectangular parallelepiped configuration, said frame open on one side to form a cavity for receiving a grouting material;

a plurality of support members disposed in said cavity to support said rectangular parallelepiped frame;

15 said cavity having a grouting material poured into said cavity and cured in said cavity, said grouting material being cured to achieve desired physical properties; and,

said rectangular parallelepiped frame including a plurality of mounting surfaces adapted for supporting a piece of rotating machinery, said mounting surfaces machined to a specified tolerance after said grouting material is cured.

20 9. A pregrouted baseplate for supporting rotating machinery, according to Claim 8, wherein:

said grouting material is an organic grout.

10. A pregrouted baseplate for supporting rotating machinery, according to Claim 8, wherein:

25 said grouting material is an inorganic grout.

11. A pregrouted baseplate for supporting rotating machinery, comprising:

a frame of a rectangular configuration with an open cavity therein;

a plurality of support members secured to said rectangular frame;

30 said cavity having a grouting material poured into said cavity and cured in said cavity, said grouting material being cured to achieve desired physical properties; and,

said rectangular frame including a plurality of mounting surfaces adapted for

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supporting a piece of rotating machinery, said mounting surfaces machined to a specified tolerance after said grouting material is cured

12. A pregrouted baseplate for supporting rotating machinery, according to Claim 11, wherein:

5 said grouting material is an organic grout.

13. A pregrouted baseplate for supporting rotating machinery, according to Claim 11, wherein:

 said grouting material is an inorganic grout.

14. A method for preparing and installing a baseplate having an open frame configuration for supporting rotating machinery, comprising:

 securing a grout retaining means to a baseplate to form a cavity therein;

 preparing and pouring a grouting material into said cavity in said baseplate;

 curing said grouting material to achieve desired physical properties for said grouting material;

 removing said grout retaining means from said baseplate;

 checking the mounting surfaces adapted for supporting a piece of rotating machinery on said baseplate for specified tolerances;

 placing said baseplate in a fixture to allow machining of said mounting surfaces;

 machining said mounting surfaces adapted for supporting a piece of rotating

20 machinery on said baseplate to a specified tolerance; and,

 installing a piece of rotating machinery on said machined mounting surfaces.

9. 15. A method for preparing and installing a baseplate for supporting rotating machinery, according to Claim 14, including the steps of:

 accelerating the curing of said grouting material by maintaining said baseplate at an elevated temperature for a specified time period.

16. A method for preparing and installing a baseplate for supporting rotating machinery, according to Claim 15, further including the steps of:

 securing said baseplate to a foundation;

 leveling said baseplate;

30 placing a form around said baseplate and said foundation; and,

 pouring a grouting material into the void between said baseplate and said

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foundation.

11 17. A method for preparing and installing a baseplate for supporting rotating machinery, according to Claim 16, wherein:

said grouting material is an organic grout.

5 12 18. A method for preparing and installing a baseplate for supporting rotating machinery, according to Claim 14, including the steps of:

ensuring the curing of said grouting material by curing said grouting material for a specified time period.

10 19. A method for preparing and installing a baseplate for supporting rotating machinery, according to Claim 18, further including the steps of:

securing said baseplate to a foundation;

leveling said baseplate;

placing a form around said baseplate and said foundation; and,

pouring a grouting material into the void between said baseplate and said

15 foundation.

14 20. A method for preparing and installing a baseplate for supporting rotating machinery, according to Claim 18, wherein:

said grouting material is an inorganic grout.